

The Flash

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From The Big Fish

By Dave Pruett, K8CC
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Why do people belong to MRRC? The typical answer is that they like contesting, and want to associate with others who feel likewise. I think its fair to say that most members hope to get something out of belonging – an opportunity to learn from others of like interests, a chance to perhaps operate at a big station, or perhaps the enjoyment of the camaraderie between the membership.

In return, does a member have any responsibilities to the club to which they belong? A few members step up and hold office. Others contribute by taking on some of the myriad of tasks needed to keep the organization running. Most MRRC members can contribute towards the club in another way – by getting on and operating in ARRL and CQ contests that have club competitions, and submitting their scores for the club. Club competition results have a direct effect on the respect afforded that club, and have also been the basis for MRRC being invited to sponsor teams in the World Radiosport Team Championships (WRTCs).

Club competitions and submitting scores has been a sensitive topic over the years. MRRC's first run at a club competition in the 1971 Sweepstakes got us disqualified and caused many of the current club rules to be instituted. NCC's mandatory requirement to submit logs for club competitions is one of the points that prevented our merger this past summer. On the other hand MRRC has always taken the approach to encourage members to participate, but participation was an individual decision.

At the Findlay Hamfest MRRC meeting back in September, I proposed that the club make winning the Medium Club category

in the ARRL Sweepstakes Club Competition a goal for the fall contest season. There is historical precedent for this; MRRC has won this category twice before, and most years we generally wind up in the top ten. My personal feeling is that this is an under-achievement for a club such as ours. SS is a contest where, while it is difficult to compete individually on the national level, a W8 can make a lot of points. We should be competing for the win EVERY year.

In response to my proposal, at the Findlay meeting the club voted to make the SS Club Competition a priority for 2000. **Mike Tessmer, K9NW** has volunteered to lead the effort to organize the club and to maximize the club score. Mike (or a club officer) will be attempting to contact every member to ask them to contribute to the MRRC 2000 SS effort. Perhaps we should refer to this as S2K (i.e., SS 2000)?

Our goal going will be to win the medium category, which is limited to 50 entries. Keep in mind that each log is an entry – so one CW SS log and one SSB SS log from a particular station counts as two entries. On the other hand, three members at a multi-operator station on one mode only counts as one entry. If we exceed 50 entries, our score will go into the unlimited category. However, this is not a bad thing.

Historically, the medium category winner generates about five million points. Divide that between fifty entries and each must average 100K. This is not terribly difficult. There are now 80 sections - West Central Florida (WCF) being the new one – so 625 QSOs and a sweep is 100K. The key to winning the medium category, assuming you have near the maximum number of entries, is to maximize the number of points per entry. Mike's article elsewhere in this newsletter spells out a number of ideas in this regard.

At the same time, SS is not the only contest this fall – CQWW and the single band ARRL contests offer different challenges than SS. If these are your cup of tea rather than SS, so be it. MRRC will not compel its members to operate any given contest. Let's go out this fall and kick butt, whatever the contest may be. K8CC should be on for all but one or two – Well see you on the air !

73, Dave/K8CC

The Editor's Keyboard

By Jeff Clarke, KU8E
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In this issue of *The Flash*, I decided to expand my horizons a bit... You will notice we have some pictures this time around. Maybe one of these days I will get some real publishing software and get a real professional look.

The turnout in Findlay was great! Much of the talk revolved around ARRL Sweepstakes. The club has decided to make SS its project for this contest season. Mike

Tessmer, K9NW, has come up with a plan on what we need to do to have a shot at the Medium Club category gavel. There has been lots of talk on the MRRRC internet reflector about SS and who is going to do what category and so on. If you need a station to operate get on and let us know... I'm sure someone is willing to host a guest operator during one of the weekends of SS. See Mike's comments in this issue of the *Flash*. Also, congratulations are in order for Mike... in the CQWW CW results he won the world for SOLP (from TI) in the WORLD. Nice job Mike!

In Findlay, I also brought up the subject of starting to publish the *Flash* on the MRRRC webpage. K8CC and some others have the Adobe Acrobat software that is need to do this. I propose that each member is given a choice of receiving a hardcopy of the *Flash* in the mail, like they do now, or if they do not need the hardcopy, we will no longer mail one to them. Please note that MRRRC dues are not for a *Flash* subscription, they are to belong to the club, which includes many other benefits. If enough members opt to not receive the *Flash*, it could save us quite a bit in publishing cost, which run about \$80 or so per issue. That savings could be used to sponsor plaques for contests or whatever other activities we might choose to use those funds for. What do you think?

That's all I have on my mind this time around... Hope to work everyone during the contest season. Also, look for your editor at PJ2T, during the CQWW CW DX contest. I will be M/S with W0CG and others...

73s Jeff KU8E

Score Rumors

NA CW Sprint

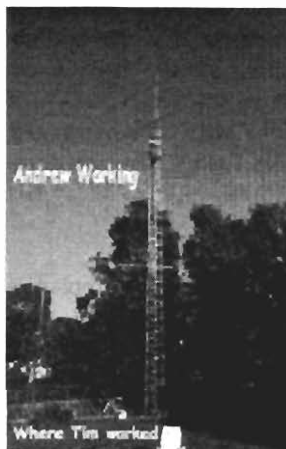
| | QSO | Mults | Score | Team |
|------|-----|-------|-------|-------|
| K9NW | 314 | 41 | 13502 | SMC |
| K8MR | 310 | 43 | 13330 | MRRRC |
| KW8N | 307 | 43 | 13201 | MRRRC |
| KU8E | 297 | 43 | 12771 | MRRRC |
| N8VW | 295 | 43 | 12685 | MRRRC |
| K8JM | 244 | 41 | 10004 | MRRRC |
| K9TM | 225 | 40 | 9000 | |
| K8CC | 100 | 33 | 3300 | |

NA Phone Sprint

| | QSO | Mults | Score | Team |
|-------|-----|-------|-------|-------|
| N8VW | 321 | 52 | 16692 | MRRRC |
| KU8E | 291 | 48 | 13968 | MRRRC |
| K8CC | 250 | 50 | 12500 | MRRRC |
| ND8DX | 258 | 47 | 12126 | MRRRC |
| K9NW | 238 | 46 | 10948 | SMC |
| N8EA | 245 | 45 | 10935 | MRRRC |
| K8MR | 208 | 46 | 9568 | MRRRC |
| N8KR | 158 | 40 | 6320 | MRRRC |

CA QSO Party

| | QSO | Mults | Score |
|------|-----|-------|--------|
| W8MJ | 959 | 58 | 133748 |
| K8MR | 404 | 58 | 57942 |
| K9TM | 373 | 58 | 49184 |
| K9NW | 145 | 42 | 16884 |
| KU8E | 150 | 47 | 16742 |



Here is a shot of the new K9TM antenna farm. Tim has a newly replaced Trylon T600-64 tower with a Force 12 MAG 520/240 (5el 20 / 2 el 40) and a MAG 415/510 (4 el 15 / 5 el 10). His old Force 12 C3 is side mounted on the tower. Tim should pileup some big numbers for MRRRC with this nice setup.

MRRC Profiles

WX3M

By Elmer Steingrass
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Don Chisholm is one of MRRC's newer members that really isn't that new to the club. Don first joined *Mad River* in 1992 and was a member until about 1995 when a tour at college forced him to temporarily curtail his membership. He returned to active membership in the club in late 1998.

Don's ham radio career began approximately ten years ago. He and school chum, Greg Lotoczky, became interested in the hobby when they were both middle school students. Greg earned his Novice license and became **KB8LTF**, shortly before Don was licensed with his Novice call of **KB8LVY** in February, 1991. Don soon upgraded to Technician and changed his call to **N8NSF**. After an infectious bite from the contesting bug at Field Day, 1991, Don set a goal of obtaining his Extra Class license in time for 1991 CQWW CW Contest. He quickly progressed through the General and Advanced license classes and passed his Extra just in time to be QRV as **N8NSF/AE**, with an Argonaut 509, a set of homebrew paddles, and a G5RV in the November event. During a brief stay with an aunt in Delaware, Don applied for and received his current call **WX3M** in March of 1992. Some of you may also remember that Don briefly held the call **WB8T** for several months in 1999 before reapplying for **WX3M**.

Don does not list any one person in particular who provided assistance along the way after he was licensed. He does mention, however, that Mike, **WS8D**, and Paul, **WY8W**, inspired him to "listen" in DX pileups; Walt, **WB8E**, informed him that there is more to ham radio than contesting; and Bill, **K8WI**, reminds him that there is more to life than amateur radio. Don credits these people with helping him put the hobby in perspective.

When asked what hobbies Don has outside of amateur radio his response was, "There are hobbies other than ham radio??" (Maybe Karl, **ND8DX** can provide the best answer to that question!!!) He does mention some non-ham radio interests which include comic books, mountain biking, occasional fishing, camping, and canoeing.

WX3M lists former MRRC members John, **W18L** and Steve, **KV8O** as contesting mentors who showed him the ropes at their modest, but effective stations. He claims not to have a favorite contest at the present time because as he says "I am an equally crummy op in all contests."

He does prefer W/VE contests over DX contests since he feels they are easier to operate and can be a lot of fun as a mobile station or from his "clandestine" home station.

Don recalls operating with **K8WI** in the 1993 SSB Sweepstakes. They attained a "clean sweep" from **K8WI**'s city lot with a Ten Tec Corsair, a Cushcraft A4S, and a trap vertical and were very proud of this accomplishment. He has also operated DX contests as a single op from **AA8U** and as part of multi-op efforts from both **AA8U** and **K8CC**. Don also enjoys participating in Field Day although he admits that the contest is very frustrating. When not contesting, he enjoys some of the other aspects of ham radio such as SWLing, playing with the digital modes, casual mobile operating, HF WEFAX, and experimenting with mobile antennas. Don's station consists of an ICOM 765 and Kenwood TS-440/AT with a SO2R box. A **W8GF** (ex **W8UCI**) homebrew Class C amp that runs a pair of 813's also can be found in the **WX3M** hamshack. The **WX3M** antenna farm presently consist of a "clandestine" 80 meter dipole running from apartment building to a nearby tree, various Hamstick antennas, and a Hamstick rotatable dipole for 15, 20 and 40 meters mounted on the balcony of his apartment building. He also has a modest collection of keys, keyers, and SWL gear.

Don again credits **W18L** and **K8VO** with introducing him to the *Mad River Radio Club*. He would like to see the club continue to encourage members with smaller stations to get on the air and turn in scores for the club in the various contests. He applauds the club sponsorship of the **MQP** and **OQP** and the recent increase in club meetings that are now being held at homes of various members. Don is music teacher for Grades K-5 in the Lake Orion Community Schools and resides in Auburn Hills, Michigan.



WX3M operating **AA8U/m** during the 2000 **MQP**.

MRRC - 2000 ARRL SS Goals

by Mike Tessmer , K9NW

At the Findlay meeting, participation in ARRL Sweepstakes was discussed. With the CW contest less than a month away, it's time to start formulating some strategy. The goal: **Win the Medium Club category** It's not enough to just say "get on for a while in SS and be sure to put MRRC on your summary." We need numbers to shoot for. Why the ambitious and rather hardcore goal of winning? Because SS is one contest where a club in the 8th call area has a very realistic chance of winning!

So what are the numbers to shoot for? How about 6,000,000 points ? If that doesn't win it, it should at least be close! We can't control what other Medium Class clubs do, but we can control what we do. How do we get 6M points?

800 QSOs * 2 points = 1600 QSO points /1600 * 77

Sections = 123,000 points / 123,000 * 48 Entries =

5,913,600 Points

800 QSOs either mode is not beyond the realm of possibility for probably 95% of MRRC stations and operators. 77 sections is an assumption that sometimes one may not get them all. 48 entries allow for a couple extra entries. Certainly, some stations will make more than 800 QSOs which will close the gap.

There are a few things that will have to be addressed. It's not in the best interest of the club to limit entries so it's entirely possible that just by encouraging activity, we could get bumped into Unlimited (50 entries is the Medium Class limit.) Thus, some sort of coordination is in order. For the record, I subscribe to the "if it happens, it happens" point of view. Some members don't like SS. That's fine. Perhaps they might open up their stations to some others that don't have a place to operate. Some members don't like one mode or another. That's fine. Perhaps they might open up their stations to some others that prefer the "off" mode. Just something to think about.

For one reason or another, not everyone will make 800 QSOs. Keep in mind that there will be a certain percentage of members that will be gunning all weekend. They will "make up the difference" so to speak. ALL entries are welcome! It may be more beneficial if a few "limited participation" efforts were to combine to form one multi-op. Everyone gets their time in the chair yet ,they can tend to other activities that may take them out of the shack. Consider three 300 QSO/60 mult efforts vs one 900 QSO/80 mult effort--108K vs 144K. Plus, you get the added bonus of the camaraderie in a multi.

Of course, there is absolutely NO attempt implied here to dictate activity. Think about goal you would like to

shoot for. Make it realistic, yet challenging. Set mediocre goals and you'll get mediocre results. Set challenging goals and you never know what might happen! Remember, while the big, full effort scores certainly contribute , it's ENTRIES that win the club competition!! I will volunteer to act as SS coordinator.

73, Mike K9NW

| Contest Calendar | Oct/Nov 2000 |
|------------------|------------------------|
| October 14-15 | PA QSO Party |
| October 22-23 | Illinois QSO Party |
| October 21 | Asia/Pacific Sprint CW |
| October 28-29 | CQWW DX SSB |
| November 4-5 | ARRL CW Sweepstakes |
| November 18-19 | ARRL SSB Sweepstakes |
| November 25-26 | CQWW DX CW |

Treasurer Report by Buck Switzer , N8CQA

Guys - Sorry I didn't get this to Jeff on time for the last newsletter.

| | |
|---------------------|----------|
| Balance 08/17/00 | \$410.25 |
| Deposits | \$384.00 |
| Sub-Total | \$794.25 |
| Expenses | \$0.00 |
| Balance 08/31/00 | \$794.25 |
| Deposits 9/1 - 9/30 | \$78.00 |
| Checks 9/1 - 9/30 | \$90.27 |
| Balance 9/30/2000 | \$931.98 |
| OQP Plaque Funds + | \$490.00 |
| MQP Plaque Funds | |
| MRRC Funds Balance | \$441.98 |

SWEEPSTAKES TOP TEN SCORES FOR MICHIGAN THROUGH 1999

CW Single Operator - High Power

| | | | |
|-----------|--------|------|----|
| 94 WA8ZDT | 195000 | 1300 | 75 |
| 96 K8CC | 188916 | 1211 | 78 |
| 93 WA8ZDT | 182704 | 1202 | 76 |
| 91 K8CC | 182490 | 1185 | 77 |
| 93 K8CC | 181336 | 1193 | 76 |
| 90 K8CC | 171300 | 1142 | 75 |
| 83 WA8YVR | 159100 | 1075 | 74 |
| 88 K8CC | 156436 | 1057 | 74 |
| 78 KDLX | 153150 | 1021 | 75 |
| 83 K8CC | 152144 | 1028 | 74 |

CW Single Operator - Low Power

| | | | |
|-----------|--------|------|----|
| 97 W8MJ | 159738 | 1011 | 79 |
| 99 W8MJ | 154440 | 990 | 78 |
| 98 W8MJ | 151838 | 961 | 79 |
| 96 AA8AV | 148824 | 954 | 78 |
| 94 AA8AV | 142604 | 926 | 77 |
| 97 WA8RRR | 139620 | 895 | 78 |
| 74 W8CON | 137492 | 929 | 74 |
| 91 KWGG | 134288 | 872 | 74 |
| 92 AA8AV | 133912 | 881 | 76 |
| 92 KW8G | 132440 | 860 | 77 |

CW Single Operator - QRP

| | | | |
|------------------|-------|-----|----|
| 98 W8RU | 95004 | 609 | 78 |
| 99 W8RU | 91504 | 602 | 76 |
| 97 W8RU | 88160 | 580 | 76 |
| 97 K8XXX (K8AQM) | 79560 | 510 | 78 |
| 94 K8AQM | 77400 | 516 | 75 |
| 96 WB8RUQ | 71188 | 481 | 74 |
| 99 K8DD | 63448 | 419 | 77 |
| 98 K8DD | 63042 | 392 | 79 |
| 95 WB8RUQ | 61640 | 460 | 67 |
| 97 K8DD | 60198 | 381 | 79 |

CW Multi Operator

| | | | |
|-----------|--------|------|----|
| 97 K8LX | 197974 | 1253 | 79 |
| 96 WA8ZDT | 180024 | 1154 | 78 |
| 95 AA8U | 172018 | 1117 | 77 |
| 99 K8CC | 164636 | 1042 | 79 |
| 94 AA8U | 164934 | 1071 | 77 |
| 87 K8AQM | 162504 | 1098 | 74 |
| 92 K8LX | 157542 | 1023 | 77 |
| 96 K8JM | 155220 | 995 | 78 |
| 95 K8JM | 151696 | 998 | 76 |
| 97 K8JM | 150732 | 954 | 79 |

SSB Single Operator - High Power

| | | | |
|------------------|--------|------|----|
| 93 K8CC (WD8IJP) | 294294 | 1911 | 77 |
| 96 K8CC (K9TM) | 272064 | 1744 | 78 |
| 94 WA8ZDT | 263802 | 1713 | 77 |
| 95 K8CC (WD8IJP) | 252406 | 1639 | 77 |
| 94 K8CC (WD8IJP) | 249942 | 1623 | 77 |
| 94 AA8U | 248248 | 1612 | 77 |
| 96 AA8U | 247572 | 1587 | 78 |
| 93 AA8U | 239316 | 1554 | 77 |
| 91 K8MJZ | 239008 | 1552 | 77 |
| 92 K8MJZ | 236852 | 1538 | 77 |

SSB Single Operator - Low Power

| | | | |
|-----------|--------|------|----|
| 95 AA8AV | 206052 | 1338 | 77 |
| 97 W8MJ | 202082 | 1279 | 79 |
| 98 W8MJ | 196394 | 1243 | 79 |
| 96 W8MJ | 190832 | 1222 | 78 |
| 92 AA8AV | 186494 | 1211 | 77 |
| 94 AA8AV | 186032 | 1208 | 77 |
| 99 W8MJ | 176486 | 1117 | 79 |
| 93 AA8AV | 167706 | 1089 | 77 |
| 90 N8CXX | 154924 | 1006 | 77 |
| 83 WD8MGQ | 154364 | 1043 | 74 |

SSB Single Operator - QRP

| | | | |
|-----------|--------|-----|----|
| 93 WB8G | 100408 | 652 | 77 |
| 99 K8LJQ | 40584 | 267 | 76 |
| 89 KB8DLH | 43216 | 296 | 73 |
| 95 W8ERN | 32850 | 219 | 75 |
| 58 K8LJQ | 29680 | 212 | 70 |
| 89 W8WVY | 28676 | 216 | 67 |
| 91 K0DD | 27950 | 215 | 65 |
| 92 N8COA | 26980 | 190 | 71 |
| 97 K8LJQ | 23010 | 177 | 65 |
| 95 K8LJQ | 21760 | 170 | 64 |

SSB Multi Operator

| | | | |
|----------|--------|------|----|
| 98 K8CC | 272708 | 1726 | 79 |
| 95 AA8U | 250250 | 1625 | 77 |
| 96 NU8Z | 246460 | 1580 | 78 |
| 93 K8MJZ | 246092 | 1598 | 77 |
| 96 K8CW | 233064 | 1494 | 78 |
| 95 K8EF | 231616 | 1504 | 77 |
| 87 K8CC | 214500 | 1430 | 75 |
| 97 W8UJ | 212826 | 1347 | 79 |
| 87 N8CXX | 205050 | 1367 | 75 |
| 87 K8MJZ | 204150 | 1361 | 75 |

SWEEPSTAKES TOP TEN SCORES FOR OHIO THROUGH 1999

CW Single Operator - High Power

| | | | |
|------------------|--------|------|----|
| 95 K8AZ (K8NZ) | 193732 | 1258 | 77 |
| 93 KW8N (WD8IXE) | 180424 | 1187 | 76 |
| 92 KW8N (WD8IXE) | 180334 | 1171 | 77 |
| 92 WR3G | 179256 | 1164 | 77 |
| 93 K08M | 178752 | 1176 | 76 |
| 91 WR3G | 173866 | 1129 | 77 |
| 91 KW8N (WD8IXE) | 172172 | 1118 | 77 |
| 90 KW8N (WD8IXE) | 169800 | 1132 | 75 |
| 95 W8FN | 168872 | 1111 | 76 |
| 94 W8FN | 165600 | 1104 | 75 |

CW Single Operator - Low Power

| | | | |
|----------|--------|------|----|
| 97 K8BL | 162740 | 1030 | 79 |
| 99 K9TM | 162740 | 1030 | 79 |
| 98 K9TM | 157248 | 1008 | 78 |
| 95 K8BL | 154308 | 1002 | 77 |
| 92 K8CX | 153846 | 999 | 77 |
| 94 K8BL | 150766 | 979 | 77 |
| 94 K8CX | 149842 | 973 | 77 |
| 93 K8BL | 149264 | 982 | 76 |
| 97 K8BE | 148824 | 954 | 78 |
| 95 N8JEC | 148302 | 963 | 77 |

CW Single Operator - QRP

| | | | |
|----------------|--------|-----|----|
| 94 K8WFO | 100168 | 659 | 76 |
| 99 WA8RUF | 84300 | 562 | 75 |
| 95 WA8RUF | 83232 | 578 | 72 |
| 92 WA8RUF | 82950 | 553 | 75 |
| 97 WA8RUF | 79952 | 526 | 76 |
| 99 NB8C (K8BL) | 76284 | 489 | 78 |
| 94 WA8RUF | 75460 | 539 | 70 |
| 90 K8BL | 75000 | 500 | 75 |
| 96 WA8RUF | 72750 | 485 | 75 |
| 98 WA8RUF | 70832 | 466 | 76 |

CW Multi Operator

| | | | |
|-----------|--------|------|----|
| 83 WB8BM | 161616 | 1092 | 74 |
| 99 W8AV | 159738 | 1011 | 79 |
| 99 K8BE | 155220 | 995 | 78 |
| 82 WB8BM | 154944 | 1076 | 72 |
| 81 WB8BM | 154322 | 1057 | 73 |
| 84 WB8BM | 150088 | 1028 | 73 |
| 95 WD8LID | 148918 | 967 | 77 |
| 91 NG8D | 147224 | 956 | 77 |
| 74 WB8BM | 147022 | 1007 | 73 |
| 91 W8EDU | 142912 | 928 | 77 |

SSB Single Operator - High Power

| | | | |
|--------------------|--------|------|----|
| 97 K8DX | 298778 | 1891 | 79 |
| 93 KW8N (NZ4K) | 270424 | 1756 | 77 |
| 91 K8AZ (K8NZ) | 238700 | 1550 | 77 |
| 99 K8DX | 237790 | 1505 | 79 |
| 95 NZ8O | 235620 | 1530 | 77 |
| 92 NZ8O | 225148 | 1462 | 77 |
| 96 K8MZ | 223860 | 1435 | 78 |
| 78 W8KIC (WB8MZZ) | 219450 | 1463 | 75 |
| 81 K8ND (WB8MZZ) | 217412 | 1469 | 74 |
| 76 WA8PLZ (WB8AYC) | 213014 | 1459 | 73 |

SSB Single Operator - Low Power

| | | | |
|------------|--------|------|----|
| 94 N8JEC | 189266 | 1229 | 77 |
| 99 K8BE | 184228 | 1166 | 79 |
| 96 K8JZ | 175656 | 1126 | 78 |
| 95 K8BL | 155848 | 1012 | 77 |
| 93 K8BL | 154616 | 1004 | 77 |
| 99 W8DD | 152154 | 963 | 79 |
| 92 K8BL | 148610 | 965 | 77 |
| 99 ND8DX | 142990 | 905 | 79 |
| 89 K8BL | 142142 | 932 | 77 |
| 94 N6WLX/8 | 130720 | 860 | 76 |

SSB Single Operator - QRP

| | | | |
|-----------|-------|-----|----|
| 93 WA8RUF | 64824 | 438 | 74 |
| 92 W8LIC | 64064 | 416 | 77 |
| 92 WA8RUF | 61500 | 410 | 75 |
| 98 WA8RUF | 53246 | 337 | 79 |
| 90 AA4YZ | 50850 | 339 | 75 |
| 99 WA8RUF | 50560 | 320 | 79 |
| 89 N8BY | 47850 | 319 | 75 |
| 94 WA8RUF | 46368 | 322 | 72 |
| 97 WA8RUF | 44640 | 310 | 72 |
| 99 WA8RUF | 43200 | 300 | 72 |

SSB Multi Operator

| | | | |
|-----------|--------|------|----|
| 95 KW8N | 332640 | 2160 | 77 |
| 96 KW8N | 325728 | 2088 | 78 |
| 94 KW8N | 316008 | 2052 | 77 |
| 92 KW8N | 304766 | 1979 | 77 |
| 91 KW8N | 294140 | 1910 | 77 |
| 95 WD9INF | 288750 | 1875 | 77 |
| 98 KW8N | 287718 | 1821 | 79 |
| 89 KW8N | 260106 | 1689 | 77 |
| 85 WB8JEM | 255744 | 1728 | 74 |
| 94 WD9INF | 248864 | 1616 | 77 |